

REMARKS

The application has been amended to place the application in condition for allowance at the time of the next Official Action.

The specification is amended to make editorial changes.

Claims 1-13 were previously pending in the application. New claim 14 is added. Therefore, claims 1-14 are presented for consideration.

Claims 1-13 were rejected under 35 USC §102(b) as being anticipated by SCHECHTER 6,223,846. That rejection is respectfully traversed.

Claim 1 recites a control method for controlling the gas flow of a compressor in which the volume is expanded during an intake stroke and the introduced volume of gas is compressed and taken out through a non-return valve during an evacuation stroke.

By way of example, as set forth on page 4, lines 7-10, the piston compressor is the most common displacement compressor, and in the piston compressor the volume which is expanded and the volume which is compressed is the same.

Thus, one of ordinary skill in the art would readily recognize that generally all the gas introduced into the compression chamber of a normally operating compressor during an

inlet stroke would also be evacuated during the subsequent evacuation stroke.

In contrast, SCHECHTER acts as a modified compressor wherein part of the gas introduced during an inlet stroke will remain in the combustion chamber and the pressure of that gas will be increased to be used for motor braking. Accordingly, SCHECHTER discloses a combustion chamber in which only a part of the gas introduced into the chamber will be evacuated during a subsequent evacuation stroke.

Thus, the method of operating the present invention and that of SCHECHTER are significantly different.

Moreover, the object sought by the two inventions are significantly different.

One of the objects in the present invention is to limit the amount of gas introduced into the compression chamber and thereby the amount of gas delivered in accordance with the momentary need of pressurized gas.

The object of SCHECHTER is to prevent pressurized air remaining in the combustion chamber from flowing out through the inlet valve if the inlet valve opens too early during intake strokes.

SCHECHTER uses a combustion engine as a modified compressor in which not all air introduced during intake strokes is evacuated during subsequent evacuation strokes. For each cycle, the pressure of the remaining air will be higher, and in

order to prevent air from flowing out through the inlet valve during a subsequent intake stroke, the opening of the inlet valve is increasingly delayed for each cycle. In this way, SCHECHTER transfers kinetic energy of a moving vehicle into energy of pressurized air. SCHECHTER uses such energy for compression braking or may use it for acceleration and propulsion.

As set forth above, an object of the present invention is the fact that generally all the gas that is introduced into the compression chamber during an intake stroke is evacuated during the subsequent evacuation stroke. The control of the amount of gas introduced during an intake stroke is based on the amount that is evacuated during subsequent evacuation stroke. The control is based on the amount of pressurized gas requested or required from the compressor. If the inlet valve is open only during a part of the intake stroke, it will, as a consequence of the recited method, be open during an initial part of the intake stroke, and then be closed during a latter part thereof, in order to allow an amount of gas that is smaller than the maximum amount to be introduced.

SCHECHTER does not address the problem of delivering a required amount of pressurized gas in an efficient way and thus, does not address a problem solved by the present invention.

Moreover, based on the disclosure of SCHECHTER, one of ordinary skill in the art would not turn to SCHECHTER to find a

solution to the problem which is the basis for applicant's invention.

As SCHECHTER does not disclose in as complete detail that which is recited in the claims and rather discloses a different control method having a different desired result, SCHECHTER does not anticipate the claims.

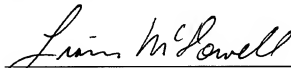
New claim 14 is added. Support for claim 14 can be found in original claim 1 and on page 4, lines 1-23.

In view of the present amendment and the foregoing remarks, therefore, it is believed that the present application has been placed in condition for allowance. Reconsideration and allowance are respectfully requested.

The Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 25-0120 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17.

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